## Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

- 1-14. (Canceled)
- 15. (Currently Amended) A circuit, comprising:
  - a buffer;
- a sampling circuit <u>capable of storing a charge of a sample</u>, the sampling circuit having a switch; and
- a damping circuit coupled between the buffer and the sampling circuit;
  wherein the damping circuit is adapted to reduce charge glitches when the switch closes.
- 16. (Original) The circuit of claim 15, wherein the damping circuit comprises a low pass filter.
- 17. (Original) The circuit of claim 16, wherein the low pass filter is an RC low pass filter.
- 18. (Previously Presented) A circuit, comprising:
  - a buffer;
  - a sampling circuit having a switch; and
  - a damping circuit coupled between the buffer and the sampling circuit;

wherein the damping circuit is adapted to reduce charge glitches when the switch closes; and

wherein the buffer includes

a source-follower transistor adapted to generate an output signal from an input signal,

a replica transistor adapted to generate a replica signal from the input signal, and

a level shifting circuit that provides a level-shifted replica signal at a terminal of the source-follower transistor.

- 19. (Previously Presented) The circuit of claim 15, wherein the buffer includes a transistor having a source and a body, and wherein the source and the body are coupled to each other to reduce a signal dependent current.
- 20. (Previously Presented) The circuit of claim 15, wherein the buffer includes a transistor having a source; and a current source coupled between the source and a voltage supply.
- 21. (Previously Presented) The circuit of claim 15, wherein the sampling circuit is a switched-capacitor sampling circuit.
- 22. (Previously Presented) The circuit of claim 21, wherein the switchedcapacitor sampling circuit includes a capacitor having a first node and a second node,

and wherein the first node is coupled to the switch and the second node is coupled to an output of the circuit.

- 23. (Previously Presented) The circuit of claim 18, wherein at least one of the source-follower transistor and the replica transistor has a source and a body, and wherein the source and the body are coupled to each other to reduce a signal dependent current.
- 24. (Previously Presented) The circuit of claim 18, wherein the buffer further includes a current source coupled between a source of the source-follower transistor and a voltage supply.
- 25. (Previously Presented) The circuit of claim 18, wherein the buffer further includes a current source coupled between a source of the replica transistor and a voltage supply.
- 26. (Previously Presented) The circuit of claim 18, wherein the sampling circuit is a switched-capacitor sampling circuit.
- 27. (Previously Presented) The circuit of claim 26, wherein the switched-capacitor sampling circuit includes a capacitor having a first node and a second node, and wherein the first node is coupled to the switch and the second node is coupled to an output of the circuit.

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- 28. (Previously Presented) The circuit of claim 18, wherein the damping circuit includes a low pass filter.
- 29. (Previously Presented) The circuit of claim 28, wherein the low pass filter is an RC low pass filter.
- 30. (Previously Presented) The circuit of claim 18, wherein the level shifting circuit is coupled between a source of the replica transistor and a drain of the source-follower transistor.
- 31. (Previously Presented) The circuit of claim 18, wherein the terminal of the source-follower transistor is a drain of the source-follower transistor.
- 32. (Previously Presented) The circuit of claim 18, wherein the level shifting circuit includes a voltage source coupled between a source of the replica transistor and the terminal of the source-follower transistor.
- 33. (Previously Presented) The circuit of claim 18, wherein the level shifting circuit includes a resistor and a current source, and wherein the resistor is coupled between a source of the replica transistor and the terminal of the source-follower transistor.
- 34. (Currently Amended) A circuit, comprising:a buffer including a transistor having a source and a body;

a sampling circuit <u>capable of storing a charge of a sample, the sampling circuit</u> including a switch; and

a damping circuit coupled between the buffer and the sampling circuit;
wherein the damping circuit is capable of reducing a charge glitch in response to
the switch being opened or closed; and

wherein the source and the body of the transistor are coupled to each other to reduce a signal dependent current.